CT Children's CLASP Guideline

Connecticut Adult Congenital Heart Service (CTACH)

INTRODUCTION

Congenital heart disease (CHD) is the most common birth defect, accounting for $^{\sim}1\%$ of all live births. 20,000-40,000 children with CHD graduate to adulthood each year. There are over 1.4 million adults with congenital heart disease living in the USA. Adults with CHD have been shown to have better outcomes when followed in a specialized adult congenital heart disease (ACHD) center. CT Children's became the first accredited ACHD program in the state in 2018.

INITIAL EVALUATION AND MANAGEMENT

INITIAL EVALUATION:

- The focus of the initial evaluation by the referring provider should be on classifying the CHD into mild, moderate, or great complexity. This determines where the patient should receive care, and how often. (See Appendix: Referral Guidelines to CTACH)
- Obtain routine blood work, ECG per referring provider discretion
- All other testing (echocardiogram, cardiac MRI, cardiac cath, EP evaluation, etc.) is preferred to be completed through Connecticut Adult Congenital Heart Service (CTACH)

WHEN TO REFER

URGENT REFERRAL to Connecticut Children's CTACH Service: (will be seen within 1 week or less) for any of the following, regardless of complexity of CHD:

- Acute cardiac issues: Worsening of pre-existing arrhythmia or new arrhythmia, symptoms of heart failure, or worsening cyanosis
- Worsening of pre-existing pulmonary hypertension (PH) or new development of PH
- Patients who become pregnant or plan on becoming pregnant

ROUTINE REFERRAL to Connecticut Children's CTACH Service:

(initial consultation within 4 weeks) for:

- Mild complexity CHD: patient can be managed by their general cardiologist or internist. CTACH
 providers can provide support and advice to the referring provider by phone, or can see patients
 for consultation as needed
- Moderate complexity CHD: can be co-managed. CTACH program will manage the congenital abnormalities, while the general adult cardiologist can manage coronary disease, hypertension, hyperlipidemia, etc. Management of heart failure is done collaboratively
- Great complexity CHD: Cardiac care should primarily occur within the CTACH program

HOW TO REFER

Referral to Connecticut Adult Congenital Heart (CTACH) Disease Service via CT Children's One Call Access Center

For more information on how to place referrals to Connecticut Children's, click here.

Phone: 833.733.7669 Fax: 833.226.2329

Information to be included with the referral:

- Most recent office visit note
- Available copies of ECG, echocardiogram or other imaging data, preferably with image CDs and operative reports

WHAT TO EXPECT

What to expect from CT Children's Visit:

- Outpatient clinic visit with an adult congenital specialist. We have 3 board certified ACHD doctors and 1 highly trained ACHD APRN
- In office testing, including an ECG and an echocardiogram, are completed during the first appointment
- Subsequent testing such as a cardio-pulmonary exercise testing, cardiac MRI, right heart cath, and EP study will be scheduled as needed based on the initial visit



APPENDIX: Referral Guideline to Connecticut Adult Congenital Heart Service (CTACH)

Mild Co	omplexity CHD	N	1oderate Complexity CHD		Great Complexity CHD
Nat	tive disease	1. 2.	Aorto–left ventricular fistulas drainage Partial or total	1. 2.	Conduits, valved or non-valved Cyanotic congenital heart (all
1. Isolated co	ongenital aortic valve	3.	Atrioventricular septal defects (partial or complete)	3.	forms) Double-outlet ventricle
	ongenital mitral valve e.g., except parachute it leaflet)	4. 5. 6.	Coarctation of the aorta Ebstein's anomaly Infundibular right ventricular	4. 5. 6.	Eisenmenger syndrome Fontan procedure Mitral atresia
Isolated si defect (no	al septal defect mall ventricular septal o associated lesions)	7.	outflow obstruction of significance Ostium primum atrial septal	7.	Single ventricle (also called double inlet or outlet, common, or primitive)
-	nonary stenosis ent ductus arteriosus	8.	defect Patent ductus arteriosus (not closed)	9.	Pulmonary atresia (all forms) Pulmonary vascular obstructive disease
<u>Repai</u>	red conditions	9.	Moderate to severe pulmonary valve regurgitation or stenosis	10. 11.	Transposition of the great arteries Tricuspid atresia
 Previously ductus art 	/ ligated or occluded teriosus		Sinus of Valsalva fistula/aneurysm Sinus venosus atrial septal		Truncus arteriosus/hemitruncus Other abnormalities of atrio- ventricular or ventriculo-arterial
venosus a	secundum or sinus trial septal defect esidua		defect Subvalvular AS or Supra AS		connection not included above:, - Crisscross heart
without re 3. Repaired videfect with	-	13.	Subvalvular AS or Supra AS (except HOCM) Tetralogy of Fallot Ventricular septal defect with: - Absent valve or valves - Aortic regurgitation - Coarctation of the aorta - Mitral disease - Right ventricular outflow tract obstruction - Straddling tricuspid/mitral valve - Subaortic stenosis CO-MANAGEMENT BETWEEN GENERAL CARDIOLOGY AND CTACH		PRIMARY MANAGEMENT BY CTACH, CONSULTATION WITH GENERAL
Phone consu	ENERAL RDIOLOGY /email/clinic ultation with H if needed		Annual follow-up, alternating with CTACH or sooner as needed		Annual CTACH evaluation or sooner as needed
			necucu		us needed

Please call to discuss whether referral is needed and/or if diagnoses do not fall under above classification, refer to CTACH service for determination of complexity and further management.

